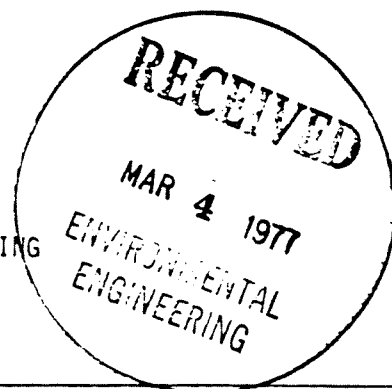




NORTH DAKOTA STATE DEPARTMENT OF HEALTH  
Air Pollution Control Program  
1200 Missouri Avenue  
Bismarck, North Dakota 58505

ANNUAL EMISSION INVENTORY REPORT  
FORM AP 301  
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING  
Calendar Year 1976



1. Name of Firm or Organization: United Power Association
2. Plant Location: Stanton, North Dakota
3. Permit to Operate Number: 730003 - old - F76007
4. Source Unit Number (from Permit to Operate): 1
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>746,205 tons</u> (Specify Units)  Delivered Cost of fuel <u>\$3.19/ton</u> (\$/Unit Quantity)	Type _____ Quantity per year _____ (Specify Units)  Delivered Cost of fuel _____ (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	10.96 8.28 9.23	
PERCENT SULFUR Max. Min. Avg.	0.94 0.48 0.65	
BTU PER UNIT Max. Min. Avg.	7170 6200 6965	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type _____		Type <u>Lignite</u>	Type _____
	Units <u>Tons</u>	Units _____		Units <u>Tons</u>	Units _____
Jan.	70,305		July	82,092	
Feb.	68,652		Aug.	76,685	
March	61,719		Sept.	71,075	
April	0		Oct.	66,971	
May	52,003		Nov.	66,274	
June	68,720		Dec.	57,079	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type _____ Units _____
Maximum	135	
Average	102.6	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season August and December  
(Specify Months of Year)

Total Hours Per Year 7271.5

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	184	670
Sulfur Dioxide	2668	9700
Nitrogen Oxides	1485	5400
Other (Specify)		

Basis For Quantities Listed Above:

Particulate = 746,205 Tons/yr x 67% fly ash x 9.23% x 1.45% emission

$SO_2 = 746,205 \text{ Tons/yr} \times 0.65\% \text{ sulfur} \times 2 \frac{SO_2}{S}$

$NO_x = SO_2 \times \frac{335}{602} \text{ ppm}$

10. Name of Person Submitting Report (Print or Type) Dan McConnon

Title Manager, Environmental and Safety Phone (612)441-3121

*I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.*

(Signed)

Dan McConnon Date 3/1/77

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	1432	5205
Sulfur Dioxide	2668	9700
Nitrogen Oxides	1485	5400
Other (Specify)		

Basis For Quantities Listed Above:

$$\begin{aligned}
 * \text{Particulate} &= 200,676 \text{ Tons/yr} \times 67\% \text{ fly ash} \times 9.23\% \times 38\% \text{ emission} = 4716 \text{ Tons/yr} \\
 &545,529 \text{ Tons/yr} \times 67\% \text{ fly ash} \times 9.23\% \times 1.45\% \text{ emission} = 489 \text{ Tons/yr} \\
 &\hspace{15em} \underline{\hspace{1em}} 5205 \text{ Tons/yr}
 \end{aligned}$$

$$\text{SO}_2 = 746,205 \text{ Tons/yr} \times 0.65\% \text{ sulfur} \times 2 \frac{\text{SO}_2}{\text{S}}$$

$$\text{NO}_x = \text{SO}_2 \times \frac{335 \text{ ppm}}{602 \text{ ppm}}$$

10. Name of Person Submitting Report (Print or Type) Dan McConnon

Title Manager, Environmental and Safety Phone (612)441-3121

*I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.*

(Signed)

Dan McConnon Date 3/11/77

\*Particulate removal equipment in operation from May through December of 1976.